



**Air Quality
TIER II OPERATING PERMIT**

**State of Idaho
Department of Environmental Quality**

PERMIT No.: T2-050508

FACILITY ID No.: 037-00001

AQCR: 63

CLASS: SM

SIC: 1061

ZONE: 11

UTM COORDINATE (km): 694.0 , 4912.0

1. PERMITTEE

Cyprus Thompson Creek Mining Company

2. PROJECT

Operating Permit Renewal for Molybdenum Mine and Mill

3. MAILING ADDRESS

P.O. Box 62

CITY

Clayton

STATE

Idaho

ZIP

83227

4. FACILITY CONTACT

Bert Doughty

TITLE

Environmental Manager

TELEPHONE

208-838-2200

5. RESPONSIBLE OFFICIAL

Kent Watson

TITLE

Vice President

TELEPHONE

208-838-2200

6. EXACT PLANT LOCATION

2.5 Miles north of Highway 75 between Thompson Creek and Squaw Creek

COUNTY

Custer

7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS

Molybdenum Mining

8. PERMIT AUTHORITY

This permit is issued according to the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.400 through 410, and pertains only to emissions of air contaminants regulated by the state of Idaho and to the sources specifically allowed to be operated by this permit.

This permit has been granted on the basis of design information presented with its application. Changes in design, equipment or operations may be considered a modification. Modifications are subject to DEQ review in accordance with IDAPA 58.01.01.200 through 228 of the Rules for the Control of Air Pollution in Idaho.

DAN PITMAN, PERMIT WRITER
DEPARTMENT OF ENVIRONMENTAL QUALITY

MIKE SIMON, STATIONARY SOURCE PROGRAM MANAGER
DEPARTMENT OF ENVIRONMENTAL QUALITY

Date Issued:	PROPOSED
Date Modified/Revised:	
Date Expires:	

Table of Contents

ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURES	3
1. TIER II OPERATING PERMIT SCOPE.....	4
2. FACILITY-WIDE CONDITIONS	6
3. PORTABLE CRUSHER.....	10
4. PRIMARY CRUSHER AND OVERLAND CONVEYOR TRANSFER	12
5. EAST AND WEST ORE FEEDERS	14
6. HOLO FLITE DRYER #1	16
7. HOLO FLITE DRYER #2 & ROTARY KILN (LUBE GRADE DRYER STACK)	19
8. HIGH PURITY MOLYBDENUM MILLING & PACKAGING/LIME SILO	22
9. DIESEL ENGINE ELECTRICAL GENERATORS	25
10. LEACH PLANT	26
11. TIER II PERMIT TO OPERATE GENERAL PROVISIONS	27

Acronyms, Units, and Chemical Nomenclatures

acfm	actual cubic feet per minute
AFS	AIRS Facility Subsystem
AIRS	Aerometric Information Retrieval System
AQCR	Air Quality Control Region
Btu	British thermal unit
CFR	Code of Federal Regulations
CO	carbon monoxide
DEQ	Department of Environmental Quality
dscf	dry standard cubic feet
EPA	U.S. Environmental Protection Agency
gpm	gallons per minute
gr	grain (1 lb = 7,000 grains)
HAPs	hazardous air pollutants
HCl	Hydrochloric Acid
HPM	High Purity Molybdenum
hp	horsepower
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometer
lb/hr	pound per hour
m	meter(s)
MMBtu	million British thermal units
NSPS	New Source Performance Standards
PM	particulate matter
PM ₁₀	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SM	synthetic minor
T/yr	tons per year
UTM	Universal Transverse Mercator
VOC	volatile organic compound

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508

Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

TIER II OPERATING PERMIT SCOPE

Purpose

- 1.1 The purpose of this permit action is to renew the Tier II operating permit.
- 1.2 This Tier II operating permit renewal replaces Tier II Operating Permit No. 037-00001, issued December 8, 1999, the terms and conditions of which shall no longer apply:

Regulated Sources

- 1.3 Table 1.1 lists all sources of regulated emissions in this permit.

Table 1.1 SUMMARY OF REGULATED SOURCES

Permit Section	Source Description	Emissions Control(s)
3	<u>Portable Crusher</u> Manufacturer: Pioneer (May be replaced by different crusher) Model: 2036	Reasonable Control
4	<u>Primary Crusher</u> Manufacturer: GATX-Fuller Type: Gyratory Operating Capacity: 4,450 ton/hr	<u>Baghouse</u> Manufacturer: American Air Filter Model: Jet Pulse modular Fabripak
4	<u>Overland Conveyor Transfer</u> Manufacturer: GATX-Fuller	<u>Baghouse</u> Manufacturer: American Air Filter Model: Jet Pulse modular Fabripak
5	<u>East and West Ore Feeders</u> Type: Apron Feeders	<u>Wet Scrubber</u> Manufacturer: Ducon Model: Model IV
6	<u>Holo Flite Dryer #1</u> Manufacturer: Holo Flite Model: D-1216-5	<u>Wet Scrubber</u> Manufacturer: Luftrol Model: KVS10 <u>ESP</u> Manufacturer: United Air Specialists Model: SH-10
7	<u>Lube Grade Dryer Stack</u> 1) Holo Flite Dryer #2 Manufacturer: Joy-Denver Model: D1216-5 2) Rotary Kiln Dryer Manufacturer: Christian Model: 12-13-16-UNI	Holo Flite Dryer #2 and the Rotary Kiln Dryer each have a dedicated wet scrubber then each vent gas stream is combined and sent through a single ESP <u>Holo Flite Dryer #2</u> Wet Scrubber Manufacturer: Luftrol Model: KVS10 <u>Rotary Kiln Dryer</u> Wet Scrubber Manufacturer: Luftrol Model: KVS11 <u>Holo Flite Dryer #2 & Rotary Kiln Dryer</u> ESP Manufacturer: United Air Specialists Model: SH-10

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508

Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

8	<u>Jet Mill</u> Pneumatic mill Manufacturer: Pulvajet Mill Model: Aljet Model 810 CIHL	<u>Baghouse</u> Manufacturer: MikroPulsaire Model: 36-S-10-30
8	<u>Tech Fine Packaging Bin</u> High Purity Molybdenum Packaging	<u>Baghouse</u> Manufacturer: Mag-Pac Model: 52-65
8	<u>Pancake Mill Feed Bin</u> Pneumatically Convey High Purity Molybdenum	<u>Baghouse</u> Manufacturer: American Air Filter Model: AR35
8	<u>Super Fine Packaging Bin & Pancake Mill</u> Manufacturer: Jet Pulverizer Model: Micron-Master	<u>Baghouse</u> Manufacturer: Mag-Pac Model: 52-65
8	<u>Pebble Lime Baghouse</u> Pneumatic transport system	<u>Baghouse</u> Manufacturer: Dalamate
9	<u>Electrical Generator Sets</u> Motivator Generator Mill Auxiliary Generator Pumpback Generator Tailings Pumps Generator	None
10	Leach Plant	Caustic Wet Scrubber
2 ¹	<u>Boiler #1</u> Manufacturer: York Shiply Fuel Usage: 33 gallons per hour of distillate fuel oil	None
2 ¹	<u>Hot Oil Boiler</u> Manufacturer: Parker Fuel Usage: 13.5 gallons per hour of distillate fuel oil	None
2 ¹	<u>Waste Oil Heaters</u> 4 units Fuel Usage: 3.6 gallons per hour for each unit	None

- 1) Permit conditions are only included in the Facility-Wide permit conditions because emission unit specific permit conditions are not required.

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508		
Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

2. FACILITY-WIDE CONDITIONS

Fugitive Emissions

- 2.1 All reasonable precautions shall be taken to prevent PM from becoming airborne in accordance with IDAPA 58.01.01.650-651. In determining what is reasonable, considerations will be given to factors such as the proximity of dust-emitting operations to human habitations and/or activities and atmospheric conditions that might affect the movement of particulate matter. Some of the reasonable precautions include, but are not limited to, the following:
- Use, where practical, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of lands.
 - Application, where practical, of asphalt, oil, water, or suitable chemicals to, or covering of, dirt roads, material stockpiles, and other surfaces which can create dust.
 - Installation and use, where practical, of hoods, fans, and fabric filters or equivalent systems to enclose and vent the handling of dusty materials. Adequate containment methods should be employed during sandblasting or other operations.
 - Covering, where practical, of open-bodied trucks transporting materials likely to give rise to airborne dusts.
 - Paving of roadways and their maintenance in a clean condition, where practical.
 - Prompt removal of earth or other stored material from streets, where practical.

To establish reasonable precautions, the Permittee shall maintain a Fugitive Dust Control Plan which identifies potential sources of fugitive dust and which establishes good operating practices for limiting the formation and dispersion of dust from those sources. The fugitive Dust Control Plan shall be developed within 45 days of the issuance of this permit and shall be part of the terms and conditions of the permit.

The Fugitive Dust Control Plan shall contain, at a minimum, the following information and requirements:

- A general description of the potential sources of fugitive dust from the facility.
- Provisions for control of dust in mining areas, haul roads and load-out areas. The Plan must establish criteria to determine when fugitive dust mitigating measures must be applied.
- Provisions for the application of suitable dust suppressant chemicals (e.g., magnesium chloride) or water to haul roads during the dry season when necessary to control fugitive dust. The Plan must establish criteria to determine when dust suppressant must be applied.
- Develop a dust control strategy for the drill rigs. The Plan must establish criteria to determine when dust control is needed on the drilling equipment. Suitable dust control strategies for the drill rigs may include water spray systems, dust suppressant chemicals, enclosures, and mechanical control devices.
- Establish procedures to minimize dust formation during conveying operations.

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508

Permittee: Cyprus Thomson Creek Mining Company

Location: Clayton, Idaho

Facility ID No. 037-00001

- Provisions for mitigating fugitive dust from blasting operations. Fugitive emissions from blasting may be controlled by limiting the extent of the area that is blasted, using the minimum amount of explosive needed to prepare the ore or over burden for removal, and controlling the amount of explosive used to minimize “casting” of material.
- Training/orientation of employees about the Fugitive Dust Control Plan procedures.
- Establish weekly monitoring and recordkeeping of those criteria established to determine when control strategies must be employed. Monitoring records shall be maintained in accordance with General Provision 7.
- When in operation, the permittee shall comply with the provisions in the Fugitive Dust Control Plan at all times.
- A copy of the Fugitive Dust Control Plan shall remain on-site at all times and shall be made available to DEQ representatives upon request.
- The Fugitive Dust Control Plan shall be updated or revised as necessary so that it accurately reflects the fugitive dust control strategies that are employed. If the DEQ determines that fugitive dust is not being reasonably controlled the Plan shall be updated to include the new mitigative measures employed to reasonably control fugitive dust and copy of the updated plan shall be submitted to DEQ within 15 days of the update. The fugitive dust control plan shall include the date the plan was developed and shall also contain each date that the plan was updated or revised.

- 2.2 The permittee shall monitor and maintain records of the frequency and the method(s) used (i.e., water, chemical dust suppressants, etc.) to reasonably control fugitive emissions.
- 2.3 The permittee shall maintain records of all fugitive dust complaints received. The permittee shall take appropriate corrective action as expeditiously as practicable after receipt of a valid complaint. The records shall include, at a minimum, the date that each complaint was received and a description of the following: the complaint, the permittee’s assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.
- 2.4 The permittee shall conduct a weekly facility-wide inspection of potential sources of fugitive emissions, during daylight hours and under normal operating conditions to ensure that the methods used to reasonably control fugitive emissions are effective. If fugitive emissions are not being reasonably controlled, the permittee shall take corrective action as expeditiously as practicable. The permittee shall maintain records of the results of each fugitive emissions inspection. The records shall include, at a minimum, the date of each inspection and a description of the following: the permittee’s assessment of the conditions existing at the time fugitive emissions were present (If observed), any corrective action taken in response to the fugitive emissions, and the date the corrective action was taken.

Odors

- 2.5 The permittee shall not allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution.
- 2.6 The permittee shall maintain records of all odor complaints received. If the complaint has merit, the permittee shall take appropriate corrective action as expeditiously as practicable. The records shall

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508		
Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

include, at a minimum, the date that each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.

Visible Emissions

- 2.7 The permittee shall not discharge any air pollutant to the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as determined by procedures contained in IDAPA 58.01.01.625. These provisions shall not apply when the presence of uncombined water, NO_x, and/or chlorine gas is the only reason for the failure of the emission to comply with the requirements of this section.
- 2.8 The permittee shall conduct a quarterly facility-wide inspection of potential sources of visible emissions, during daylight hours and under normal operating conditions. The visible emissions inspection shall consist of a see/no see evaluation for each potential source. If any visible emissions are present from any point of emission, the permittee shall either take appropriate corrective action as expeditiously as practicable, or perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. A minimum of 30 observations shall be recorded when conducting the opacity test. If opacity is greater than 20% for a period or periods aggregating more than three minutes in any 60-minute period, the permittee shall take all necessary corrective action and report the exceedance in accordance with IDAPA 58.01.01.130-136. The permittee shall maintain records of the results of each visible emissions inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and test and a description of the following: the permittee's assessment of the conditions existing at the time visible emissions are present (if observed), any corrective action taken in response to the visible emissions, and the date corrective action was taken.

Open Burning

- 2.9 The permittee shall comply with the requirements of the Rules for Control of Open Burning, IDAPA 58.01.01.600-616.

Reports and Certifications

- 2.10 Any reporting required by this permit, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, notifications of intent to test, testing reports, or compliance certifications, shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete. Any reporting required by this permit shall be submitted to the following address:

Air Quality Permit Compliance
Department of Environmental Quality
Idaho Falls Regional Office
900 N. Skyline, Suite B
Idaho Falls, ID 83402
Phone: (208) 528-2650
Fax: (208) 528-2695

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508		
Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

Obligation to Comply

- 2.11 Receiving a Tier II operating permit shall not relieve any owner or operator of the responsibility to comply with all applicable local, state, and federal rules and regulations.

Fuel-burning Equipment

- 2.12 The permittee shall not discharge to the atmosphere from any fuel-burning equipment PM in excess of 0.015 gr/dscf of effluent gas corrected to 3% oxygen by volume for gaseous fuels, 0.050 gr/dscf of effluent gas corrected to 3% oxygen by volume for liquid fuels.

Sulfur Content

- 2.13 No person shall sell, distribute, use, or make available for use any distillate fuel oil containing more than the following percentages of sulfur:
- ASTM Grade 1 fuel oil - 0.3% by weight.
 - ASTM Grade 2 fuel oil - 0.5% by weight.
- 2.14 The permittee shall maintain documentation of supplier verification of distillate fuel oil content on an as-received basis.

Hazardous Air Pollutants

- 2.15 Emissions of any single Hazardous Air Pollutant (HAP) from the entire facility shall not equal or exceed 10 tons per any consecutive 12-calendar month period.
- 2.16 Emissions of any combination of HAPs from the entire facility shall not equal or exceed 25 tons per any consecutive 12-calendar month period.
- 2.17 In absence of any other creditable evidence, compliance with HAP emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508**Permittee:** Cyprus Thomson Creek Mining Company**Location:** Clayton, Idaho**Facility ID No.** 037-00001**3. PORTABLE CRUSHER****3.1 Process Description**

Thompson Creek operates a crusher that is portable within the mines boundaries. The crusher does not leave the mine's property. The crusher is used primary for preparing aggregate for on-site road projects. The portable crusher consists of a primary and secondary screen, primary and secondary crusher and conveying operations.

3.2 Emission Control Description**Table 3.1 PORTABLE CRUSHER DESCRIPTION**

Emissions Unit(s) / Process(es)	Emissions Control Device	Emissions Point
Portable Crusher Equipment <ul style="list-style-type: none">• Primary and Secondary Screen• Primary and Secondary Crushers• Conveyor belts	Water spray on primary crusher. Reasonable control of fugitive dust on all other equipment	Portable Crusher Area

The equipment listed in Table 3.1 may be replaced without the need to amend this permit provided the permittee complies with all applicable permit conditions.

Operating Requirements**3.3 Throughput Limits**

The portable rock crusher shall not process more 4,800 tons per any calendar day. The portable rock crusher shall not process more than 700,000 tons per any consecutive 12-calendar months.

3.4 Water Spray Requirement

Fugitive emissions resulting from the portable crushing operations shall be reasonably controlled as required in IDAPA 58.01.01.650 and 58.01.01.651 including, but not limited to, using water spray to control fugitive emissions resulting from the primary crusher. On days with precipitation or on which the ambient temperature is below freezing (32 degrees Fahrenheit), the use of water sprays is not required.

3.5 Equipment Change Out

No more than one portable crushing processing consisting of a primary screen, secondary screen, primary crusher and secondary crusher shall be operational at any one time. Written notice of the any replacement of this equipment shall be provided to DEQ within 14 days of the change.

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508		
Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

Monitoring and Recordkeeping Requirements

3.6 Monitoring Requirement

The permittee shall monitor and record the tons of material processed through the portable crusher each day and for the most recent consecutive 12-calendar month period. The permittee shall maintain the records in accordance with General Provision 7.

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508

Permittee: Cyprus Thomson Creek Mining Company
Location: Clayton, Idaho

Facility ID No. 037-00001

4. PRIMARY CRUSHER AND OVERLAND CONVEYOR TRANSFER

4.1 Process Description

Mined ore is transported to the primary gyratory crusher by haul trucks. Primary crushing reduces the ore from 24 inches or greater in diameter to less than 8 inches. Emissions from the primary crusher are controlled by a baghouse. The ore from the primary crusher is transported by conveyor belt from an elevation of 7,200 feet to an elevation of about 7,500 feet. The overland conveyor system includes a transfer point and emissions from this transfer point are controlled by a baghouse.

4.2 Emission Control Description

Table 4.1 PRIMARY CRUHSER AND OVERLAND CONVEYOR DESCRIPTION

Emissions Unit(s) / Process(es)	Emissions Control Device
Primary Crusher	Baghouse
Overland Conveyor Transfer Point	Baghouse

Emissions Limits

4.3 Emission Limits

Emissions from the Primary Crusher and Overland Conveyor Transfer Point baghouse stacks shall not exceed any corresponding emissions rate limits listed in Table 4.2.

Table 4.2 PRIMARY CRUSHER OVERLAND & CONVEYOR EMISSIONS LIMITS¹

Source Description	PM ₁₀	
	lb/day ²	T/yr ³
Primary Crusher	53.5	4.1
Overland Conveyor Transfer Point	64.1	4.9

- 1) In absence of any other creditable evidence, compliance is assured by complying with this permits operating, monitoring and record keeping requirements
- 2) Pounds per calendar day
- 3) Tons per any consecutive 12-calendar month period

Operating Requirements

4.4 Throughput Limits

Throughput of ore to the primary crusher and the overland conveyor shall not exceed:

- 106,800 tons per calendar day;
- 16,242,500 tons per any consecutive 12-calendar month period.

4.5 Baghouse Requirement

Within 60 days of permit issuance, the permittee shall have developed an O&M manual for the primary crusher and overland conveyor transfer point baghouses. The O&M manual shall describe the procedures that will be followed to comply with General Provision 2 and the manufacturer specifications for the baghouses. The manual shall contain, at a minimum, requirements for semi-annual inspections of the dust

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508		
Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

collectors. The inspections shall include, but not be limited to, checking the bags for structural integrity and that they are appropriately secured in place. The results of the inspection shall be recorded and if any maintenance is performed a description of the maintenance performed shall also be recorded. The manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The operating and monitoring requirements specified in the O&M manual are incorporated by reference to this permit and are enforceable permit conditions.

The O&M manual shall be submitted to DEQ at the following address. Any changes made to the O&M manual shall also be submitted to DEQ within 15 days of the change.

Air Quality Permit Compliance
Department of Environmental Quality
Idaho Falls Regional Office
900 N. Skyline, Suite B
Idaho Falls, ID 83402

Monitoring and Recordkeeping Requirements

4.6 Monitoring Requirement

The permittee shall monitor and record the throughput of ore to the primary crusher and the overland conveyor:

- Each calendar day;
- Each month the throughput during the most recent consecutive 12-calendar month period.

4.7 Baghouse Inspections

The permittee shall maintain documentation on site of the results of the semiannual baghouse inspections required by the Baghouse Operations and Maintenance Manual. The results of the inspection shall be documented and shall at minimum include statements about the structural integrity of the bags and whether they are appropriately secured in place. Monitoring shall comply with Tier II Operating Permit General Provision 7.

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508

Permittee:	Cyprus Thomson Creek Mining Company
Location:	Clayton, Idaho

Facility ID No. 037-00001

5. EAST AND WEST ORE FEEDERS

5.1 Process Description

Ore is dropped from the overland conveyor at the mill ore stock pile. Two apron feeders, the East and West Ore Feeders, then transfer the ore from the bottom of the stockpile into the grinding process.

5.2 Emission Control Description

Table 5.1 EAST AND WEST ORE FEEDERS DESCRIPTION

Emissions Unit(s) / Process(es)	Emissions Control Device
East Ore Feeders	Venturi Scrubber
West Ore Feeders	Venturi Scrubber

Emissions Limits

5.3 Emission Limits

The PM₁₀ emissions from the East Ore Feeder and West Ore Feeder venturi scrubber stacks shall not exceed:

- 2.5 pounds per hour;
- 11.0 tons per any consecutive 12-calendar month period;

as determined by complying with this permits operating requirements or by a performance test conducted in accordance with IDAPA 58.01.01.157.

Operating Requirements

5.4 Throughput Limits

The combined throughput of ore to the East and West Ore Feeders shall not exceed:

- 40,000 tons per calendar day;
- 14,600,000 tons per any consecutive 12-calendar month period.

5.5 Wet Scrubber Requirements

The permittee shall install, maintain and operate a venturi scrubber to control emissions from the East and West Ore Feeder.

The scrubbers operating parameters shall be maintained as follows:

- The pressure drop across each scrubber shall be maintained at or above 6.0 inches of water.
- The scrubbing liquid flow rate to each scrubber shall be equal to or greater than 14.0 gallons per minute.

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508		
Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

As an alternative to the operating parameters specified in this permit condition, the permittee may establish new operating parameters by conducting a performance test that demonstrates compliance with the PM₁₀ pound per hour emission limit for the East and West Ore Feeder venturi stack while operating at the alternative operating parameters. The performance test shall be conducted in accordance with the Test Methods and Procedures specified in the Rules (IDAPA 58.01.01.157). All operating parameters specified in this permit condition shall be monitored and recorded a minimum of four times during each test run. The permittee shall only operate below the minimum values specified in this permit condition during the performance test. Upon receiving DEQ written approval, the permittee shall operate in accordance with those DEQ approved operating parameters. A copy of DEQ's approval shall be maintained on-site with a copy of this permit.

The permittee shall operate the following monitoring devices:

- A device for the continuous measurement of the pressure drop across the scrubber in inches of water.
- A device for the continuous measurement of the scrubbing liquid flow rate to the wet scrubber in gallons per minute.

Monitoring and Recordkeeping Requirements

5.6 Throughput Monitoring Requirement

The permittee shall monitor and record the combined throughput of ore (in tons) to the East and West Ore Feeder:

- each calendar day;
- each month the throughput during the most recent consecutive 12-calendar month period.

5.7 East and West Ore Feeder Wet Scrubber Monitoring Requirement

The permittee shall monitor and record the following scrubber operating parameters once every two weeks:

- the pressure drop across the scrubber in inches of water;
- the scrubbing liquid flow rate to the wet scrubber in gallons per minute.

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508

Permittee:	Cyprus Thomson Creek Mining Company
Location:	Clayton, Idaho

Facility ID No. 037-00001

6. HOLO FLITE DRYER #1

6.1 Process Description

Slurry from the floatation concentrator is thickened in a tank then filtered. The wet filter cake is dried in the Holo Flite Dryer #1 to a moisture content of 5-8% water.

6.2 Emission Control Description

Table 6.1 HOLO FLITE DRYER #1 DESCRIPTION

Emissions Unit	Emissions Control Devices
Holo Flite Dryer #1 Manufacturer: Holo Flite Model: D-1216-5	Wet Scrubber & then ESP Scrubber Manufacturer: Ducon Model: IV, Multivane ESP Manufacturer: United Air Specialists Model: SH-10

Operating Requirements

6.3 Throughput to Holo Flite Dryer #1

The throughput into Holo Flite Dryer #1 shall not exceed:

- 247.7 tons per calendar day;
- 81,030 tons per any consecutive 12- calendar month period.

6.4 Air Pollution Control Devices

The permittee shall maintain and operate a wet scrubber and an electrostatic precipitator to control emissions from Holo Flite Dryer #1.

6.5 Wet Scrubber

The scrubbing liquid flow rate to the Holo Flite #1 wet scrubber shall be equal to or greater than 6.0 gallons per minute.

6.6 Electrostatic Precipitator (ESP)

The electrostatic precipitator shall control emissions from Holo Flite Dryer #1 and the Lube Grade drying system that is included in Section 7 of this permit.

The secondary voltage and amperage applied to each transformer-rectifier set, and the spark rate of the electrostatic precipitator shall be maintained within manufacturer specifications. Documentation of the manufacturer specifications shall remain on site at all times and shall be made available to DEQ representatives upon request. In addition to the manufacturer specifications, the permittee shall prepare a summary sheet of the manufacturer operating parameter specifications for the following:

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508		
Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

- Secondary amperage including the averaging time (i.e. average per clock hour, average per any consecutive 60 minutes, etc.)
- Secondary voltage including the averaging time
- Spark Rate operating range including the averaging time

Monitoring and Recordkeeping Requirements

6.7 ESP Operating Parameter Monitoring Requirements

Within 90 days of permit issuance the permittee shall install, calibrate, operate and maintain any equipment necessary on the ESP to monitor the secondary voltage, amperage and spark rate.

The monitoring equipment shall be operated in accordance with manufacturer specifications. The monitoring equipment shall record on date stamped strip charts, circular charts, or electronic data logs in units of measure consistent with the manufacturer specified operating parameters for these operating parameters and averaging times.

6.8 ESP Annual Inspection

At least once each calendar year, the permittee shall inspect the ESP for physical degradation that could affect the performance of the ESP. Each annual inspection shall be at least four months apart. At a minimum, the permittee shall check the following components of the ESP for damage or other condition that would reduce the efficiency:

- Discharge Electrodes
- Collection Electrodes
- Electrode alignment
- Rapper mechanisms for the electrodes
- Transformer-rectifier sets

The permittee shall record in a log the results of the inspection. The log shall contain the date of inspection, the identity of the inspector, the results of each inspection, and the date of any repairs made or corrective action taken.

6.9 Wet Scrubber Monitoring Requirement

The permittee shall monitor and record the scrubbing liquid flow rate in gallons per minute once each calendar week.

6.10 Throughput Monitoring Requirement

The permittee shall monitor and record the tons of throughput to the Holo Flite Dryer #1:

- Each calendar day;
- Each month the throughput during the most recent consecutive 12-calendar month period.

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508		
Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

6.11 Volatile Organic Compound (VOC) Emissions Test

The permittee shall conduct a VOC emissions test on Holo Flite Dryer #1 within 60 days of permit issuance in accordance with IDAPA 58.01.01.157. Performance tests conducted 90 days prior to permit issuance are acceptable provided the tests are conducted in accordance with IDAPA 58.01.01.157. If VOC emissions exceed 2.26 pounds per hour from Holo Flite Dryer #1 and the Lube Grade Dryers (Holo Flite #2 and rotary kiln) combined the permittee shall submit a refined HAP emission inventory within 60 days of permit issuance or within 60 days of conducting the performance test, which ever is later, that includes speciation of the HAPs that are in the VOCs to assure compliance with Permit Condition 2.15 and 2.16.

The permittee shall monitor and record the following, or DEQ approved alternative, during the performance test:

- Pressure drop across the scrubber once every 15 minutes during the test
- Scrubbing media flow rate to the scrubber once every 15 minutes during the test
- Throughput to Holo Flite Dryer #1 once every 15 minutes during the test
- ESP secondary voltage, amperage and spark rate during the test
- Percent VOC or Fuel Oil in the concentrate once every 15 minutes during the test or with sufficient frequency during the test to assure the test was conducted under worst-case normal conditions.

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508		
Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

7. HOLO FLITE DRYER #2 & ROTARY KILN DRYER (LUBE GRADE DRYER STACK)

7.1 Process Description

High purity molybdenum material is produced by an advanced floatation and cleaning process, after cleaning the high purity molybdenum is dewatered then dried in Holo Flite Dryer #2. From Holo Flite Dryer #2 the high purity molybdenum is electrically-heated in a rotary kiln dryer where most of the remaining moisture is removed. Each dryer is controlled by its own wet scrubber, then the exhaust stream is combined and sent through an electrostatic precipitator (ESP) and out the “Lube Grade Dryer Stack”.

7.2 Emission Control Description

Table 7.1 HOLO FLITE DRYER #2 & ROTARY KILN DESCRIPTION

Emissions Unit	Emissions Control Devices
Holo Flite Dryer #2 Manufacturer: Joy-Denver Model: D-1216-5	<u>Wet Scrubber & then ESP</u> Scrubber Manufacturer: Luftrol Model: KVS10 and KVS11
Rotary Kiln Dryer Manufacturer: Christian Model: 12-13-16-UNI	ESP Manufacturer: United Air Specialists Model: SH-10

7.3 New Source Performance Standard (NSPS) Stack Emission Limits

The permittee shall not allow to be discharged into the atmosphere from the Lube Grade Dryer stack any stack emissions that contain particulate matter in excess of 0.05 grams per dry standard cubic meter in accordance with 40 CFR 60.382(a)(1).

7.4 New Source Performance Standard (NSPS) Fugitive Emission Opacity Limit

The permittee shall not allow to be discharged from any affected emission unit (as defined by 40 CFR 60.380), which includes the rotary kiln and the Holo Flite Dryer #2, any process fugitive emissions that exceed 10 percent opacity in accordance with 40 CFR 60.382(a)(2)(b).

7.5 In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

Operating Requirements

7.6 Air Pollution Control Devices

The permittee shall maintain and operate a wet scrubber and an electrostatic precipitator to control emissions from Holo Flite Dryer #2 and the rotary kiln.

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508		
Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

7.7 Emissions Controls

The electrostatic precipitator shall control emissions from Holo Flite Dryer #2, the rotary kiln, and Holo Flite Dryer #1 included in Section 6 of this permit. The ESP shall be operated in accordance with Permit Condition 6.6 of this permit.

7.8 Throughput Limitation

The throughput into Holo Flite Dryer #2 and rotary kiln shall not exceed:

- 24 tons per calendar day;
- 5,488 tons per any consecutive 12- calendar month period.

Monitoring and Recordkeeping Requirements

7.9 Throughput Monitoring

The permittee shall monitor and record the throughput to Holo Flite Dryer #2 and the rotary kiln each calendar day and each month in tons processed during the most recent 12-calendar month period.

7.10 Scrubber Monitoring in Accordance with 40 CFR 60.384 and 385

7.10.1 In accordance with 40 CFR 60.384 the permittee shall install, calibrate, maintain, and operate a monitoring devices for the continuous measurement of the change in pressure of the gas stream through the scrubbers and a device for the continuous measurement of the scrubbing liquid flow rate to the scrubbers. The pressure measuring devices must be certified by the manufacturer to be accurate within plus or minus one inch of water and must be calibrated on an annual basis in accordance with manufacture's instructions. The scrubbing liquid flow rate monitors must be certified by the manufacturer to be accurate within plus or minus 5% of the design scrubbing liquid flow rate and must be calibrated on at least an annual basis in accordance with the manufacture's instructions.

7.10.2 In accordance with 40 CFR 60.385 the permittee shall record the pressure of the gas stream across each scrubber and the scrubbing liquid flow rate to each scrubber once each calendar week.

7.11 Reporting in Accordance with 40 CFR 60.385

In accordance with 40 CFR 60.385 the permittee shall submit semiannual reports to DEQ of occurrences when the measurements of the scrubber pressure loss or liquid flow rate differ by more than plus or minus 30% from the average obtained during the most recent performance test. The reports shall be postmarked within 30 days following the end of the second and fourth calendar quarters.

7.12 Source Test Records

The permittee shall maintain a copy of the most recent source test report conducted on the Holo Flite #2 Dryer Stack that contains the pressure drop and scrubbing liquid flow rate to the wet scrubbers measured during the test and make the report available to DEQ representatives upon request.

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508		
Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

7.13 Volatile Organic Compound (VOC) Emissions Test

The permittee shall conduct a VOC emissions test on Holo Flite #2 and rotary kiln within 60 days of permit issuance in accordance with IDAPA 58.01.01.157. Performance tests conducted 90 days prior to permit issuance are acceptable provided the tests are conducted in accordance with IDAPA 58.01.01.157. If VOC emissions exceed 2.26 pounds per hour from the Holo Flite Dryer #1 and Lube Grade Dryers (Holo Flite #2 and rotary kiln) combined the permittee shall submit a refined HAP emission inventory within 60 days of permit issuance or within 60 days of conducting the performance test, which ever is later, that includes speciation of the HAPs that are in the VOCs to assure compliance with Permit Condition 2.15 and 2.16.

The permittee shall monitor and record the following, or Department approved alternative, during the performance test:

- Pressure drop across the scrubber once every 15 minutes during the test
- Scrubbing media flow rate to the scrubber once every 15 minutes during the test
- Throughput to Holo Flite Dryer #2 and the rotary kiln once every 15 minutes during the test
- ESP secondary voltage, amperage and spark rate during the test
- Percent VOC or Fuel Oil in the concentrate once every 15 minutes during the test or with sufficient frequency during the test to assure the test was conducted under worst-case normal conditions.

7.14 ESP Operating Parameter Monitoring Requirements

The permittee shall monitor the ESP in accordance with Permit Condition 6.7.

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508		
Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

8. HIGH PURITY MOLYBDENUM MILLING & PACKAGING/LIME SILO

8.1 Process Description

High purity molybdenum (HPM) from the Holo Flite Dryer #2 and/or rotary kiln is either packaged as final product or processed through the Jet Mill to produce finer grades of HPM. Super fine molybdenum is produced by processing HPM through the Jet Mill and then through the Pancake Mill.

Five different grades of HPM are processed and packaged:

- Large Particle HPM
- Grade A
- Tech Grade
- Tech Fine Grade
- Super Fine Grade

Large Particle HPM is produced by processing the HPM through Holo Flite Dryer #2 and the rotary kiln to the tech fine bin from which the product is packaged.

Grade A HPM is produced by processing the HPM through Holo Flite Dryer #2 to the tech fine bin from which the product is packaged.

Tech Grade and Tech Fine Grade HPM are produced by processing the HPM through Holo Flite Dryer #2, rotary kiln and the Jet Mill. In the Jet Mill different sizes of material (Tech and Tech Fine Grades) are produced by changing HPM throughput rates and air pressure.

Super Fine Grade HPM is produced by processing Tech Grades of HPM through a Pancake Mill.

Pebble lime is delivered to the facility and pneumatically conveyed to the lime silo. Pebble lime is mixed with water to form slurry and fed into the SAG mill, neutralization tank, or the tailings line.

8.2 Emission Control Description

Table 8.1 MILLING AND PACKAGING DESCRIPTION

Emissions Unit(s) / Process(es)	Emissions Control Device
Jet Mill Feed Bin & Jet Mill	Jet Mill Baghouse Manufacturer: Mikro Pulsaire Model: 36-S-10-30
Tech Fine Packaging Bin	Tech Fine Packaging Baghouse Manufacturer: Mag-Pac Model: 52-65
Pancake Mill Feed Bin & Pancake Mill	Pancake Feed Bin Baghouse Manufacturer: American Air Filter Model: AR35
Super Fine Packaging Bin	Super Fine Packaging Bin Baghouse Manufacturer: Mag-Pac Model: 52-65
Lime Silo	Lime Pebble Lime Baghouse Manufacturer: Dalamate

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508		
Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

Emissions Limits

8.3 New Source Performance Standard (NSPS) Stack Emission Limits

The permittee shall not allow to be discharged into the atmosphere from the Jet Mill baghouse stack, Tech Fine Packing baghouse stack, Pancake Feed Bin baghouse stack and Super Fine Packaging Bin baghouse stack any emissions that contain particulate matter in excess of 0.05 grams per dry standard cubic meter in accordance with 40 CFR 60.382(a)(1) or exhibit greater than 7 percent opacity in accordance with 40 CFR 60.382(a)(2).

8.4 New Source Performance Standard (NSPS) Fugitive Emission Opacity Limit

The permittee shall not allow to be discharged from any affected emission unit (as defined by 40 CFR 60.380 which includes the bins, bucket elevators, and enclosed storage area), any process fugitive emissions that exceed 10 percent opacity in accordance with 40 CFR 60.382(a)(2)(b).

8.5 In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

Operating Requirements

8.6 Baghouse O&M

Within 60 days of permit issuance, the permittee shall have developed an Operations and Maintenance (O&M) manual for the baghouses which control the PM and PM₁₀ emissions from the Jet Mill, Tech Fine Packing, Pancake Feed Bin, Super Fine Packaging Bin and Lime Silo. The O&M manual shall describe the procedures that will be followed to comply with General Provision 2 and the manufacturer specifications for the baghouse. The manual shall contain, at a minimum, requirements for semiannual inspection of the baghouses. The inspections shall include, but not be limited to, checking the bags or cartridges for structural integrity and that they are appropriately secured in place. The manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The operating and monitoring requirements specified in the O&M manual are incorporated by reference to this permit and are enforceable permit conditions.

The O&M manual shall be submitted to DEQ at the following address. Any changes made to the O&M manual shall also be submitted.

Air Quality Permit Compliance
Department of Environmental Quality
Idaho Falls Regional Office
900 N. Skyline, Suite B
Idaho Falls, ID 83402

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508		
Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

Monitoring and Recordkeeping Requirements

8.7 Baghouse Inspections

The permittee shall maintain documentation on site of the results of the semiannual baghouse inspections required by the Baghouse Operations and Maintenance Manual. The results of the inspection shall be documented and shall at minimum include statements about the structural integrity of the bags and whether they are appropriately secured in place. Monitoring shall comply with Tier II Operating Permit General Provision 7.

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508

Permittee:	Cyprus Thomson Creek Mining Company
Location:	Clayton, Idaho

Facility ID No. 037-00001**9. DIESEL ENGINE ELECTRICAL GENERATORS****9.1 Process Description**

The permittee maintains four diesel engine powered electrical generators. The generators provide power to pumps, electrical motors and other equipment during emergency situations.

9.2 Emission Control Description**Table 9.1 EMERGENCY GENERATORS DESCRIPTION**

Emissions Unit(s) / Process(es)	Emissions Control Device
Motivator Generator Manufacturer: Cummins Installation Date: 1981 Fuel Type: Diesel Fuel Horse Power: 1490	None
Mill Auxiliary Generator Manufacturer: Cummins Installation Date: 1981 Fuel Type: Diesel Fuel Horse Power: 265	None
Pumpback Generator Manufacturer: Cummins Installation Date: 1981 Fuel Type: Diesel Fuel Horse Power: 450	None
Tailings Pumps Generator Manufacturer: Cummins Installation Date: 1996 Fuel Type: Diesel Fuel Horse Power: 1272	None

Operating Requirements**9.3 Generator Engine Hours of Operation**

9.3.1 The permittee shall not operate the Tailings Pump, Mill Auxiliary, or Pump Back emergency generators more than 500 hours per calendar year each.

9.3.2 The permittee shall not operate the Motivator emergency generator more than 3,000 hours per calendar year.

Monitoring and Recordkeeping Requirements

9.4 The permittee shall monitor and record the hours of operation of each of the generator engines each calendar month during the most recent consecutive 12-calendar month period.

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508

Permittee:	Cyprus Thomson Creek Mining Company
Location:	Clayton, Idaho

Facility ID No. 037-00001**10. LEACH PLANT****10.1 Process Description**

Hydrochloric acid (HCl) is used in the leaching process to remove lead from low grade ore. HCl fumes from the leaching processes are vented to a caustic scrubber.

10.2 Emission Control Description**Table 9.1 LEACH PLANT DESCRIPTION**

Emissions Unit(s) / Process(es)	Emissions Control Device
Leach Plant	Caustic Wet Scrubber

Operating Requirements**10.3 Scrubber Operating Parameters**

The permittee shall establish minimum operating thresholds for scrubbing media flow rate and pH for the Leach Plant wet scrubber. The permittee shall prepare a written document on how it will be assured that the scrubber operates consistent with the established flow rate and pH. At a minimum the document shall include monthly inspections of the scrubber to determine if the scrubbing liquid flow rate and pH are consistent with those established by the permittee.

Monitoring and Recordkeeping Requirements**10.4 Scrubber Inspections**

The permittee shall maintain documentation on site of the results of the monthly inspections of the scrubbing media flow rate and pH. The results of the inspection shall be documented and comply with the monitoring and recordkeeping requirements of Tier II Operating Permit General Provision 7.

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508		
Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

11. TIER II PERMIT TO OPERATE GENERAL PROVISIONS

General Compliance

1. The permittee has a continuing duty to comply with all terms and conditions of this permit. All emissions authorized herein shall be consistent with the terms and conditions of this permit and the Rules for the Control of Air Pollution in Idaho. The emissions of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the Rules for the Control of Air Pollution in Idaho, and the Environmental Protection and Health Act, Idaho Code §39-101, et seq.
[Idaho Code §39-101, et seq.]
2. The permittee shall at all times (except as provided in the Rules for the Control of Air Pollution in Idaho) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable Idaho laws for the control of air pollution.
[IDAPA 58.01.01.211, 5/1/94]
3. Nothing in this permit is intended to relieve or exempt the permittee from the responsibility to comply with all applicable local, state, or federal statutes, rules and regulations.
[IDAPA 58.01.01.212.01, 5/1/94]

Inspection and Entry

4. Upon presentation of credentials, the permittee shall allow DEQ or an authorized representative of DEQ to do the following:
 - a. Enter upon the permittee's premises where an emissions source is located or emissions related activity is conducted, or where records are kept under conditions of this permit;
 - b. Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 - d. As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.
[Idaho Code §39-108]

Construction and Operation Notification

5. The permittee shall furnish DEQ written notifications as follows in accordance with IDAPA 58.01.01.211:
 - a. A notification of the date of initiation of construction, within five working days after occurrence;
 - b. A notification of the date of any suspension of construction, if such suspension lasts for one year or more;

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508

Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

- c. A notification of the anticipated date of initial start-up of the stationary source or facility not more than sixty days or less than thirty days prior to such date;
- d. A notification of the actual date of initial start-up of the stationary source or facility within fifteen days after such date; and
- e. A notification of the initial date of achieving the maximum production rate, within five working days after occurrence - production rate and date.

[IDAPA 58.01.01.211, 5/1/94]

Performance Testing

6. If performance testing (air emissions source test) is required by this permit, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test date or shorter time period as approved by DEQ. DEQ may, at its option, have an observer present at any emissions tests conducted on a source. DEQ requests that such testing not be performed on weekends or state holidays.

All performance testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, at least 30 days prior to conducting any performance test, the permittee is encouraged to submit a performance test protocol to DEQ for approval. The written protocol shall include a description of the test method(s) to be used, an explanation of any or unusual circumstances regarding the proposed test, and the proposed test schedule for conducting and reporting the test.

Within 30 days following the date in which a performance test required by this permit is concluded, the permittee shall submit to DEQ a performance test report. The written report shall include a description of the process, identification of the test method(s) used, equipment used, all process operating data collected during the test period, and test results, as well as raw test data and associated documentation, including any approved test protocol.

[IDAPA 58.01.01.157, 4/5/00]

Monitoring and Recordkeeping

7. The permittee shall maintain sufficient records to ensure compliance with all of the terms and conditions of this permit. Records of monitoring information shall include, but not be limited to the following: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to DEQ representatives upon request.

[IDAPA 58.01.01.211, 5/1/94]

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2 -050508		
Permittee:	Cyprus Thomson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

Excess Emissions

8. Excess emissions are emissions that exceed an applicable emissions standard established for any facility, source or emissions unit by statute, regulation, rule, permit or order.

[IDAPA 58.01.006.38, 4/11/06]

The permittee shall comply with the applicable procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions. Requirements include, but are not limited to the following:

- a. Correcting the condition that caused the excess emission with all practicable speed.
- b. Taking actions to reduce the frequency of occurrence of excess emissions.
- c. Minimizing the amount by which the emission standard is exceeded.
- d. Notifying the Department within 2 hours of any startup, shutdown or scheduled maintenance event that is expected to cause an excess emission event.
- e. Notifying the Department of any excess emissions that result from an upset/breakdown/safety event within 24 hours.
- f. Submitting a full report of each excess emission event including a statement of all known causes, and the scheduling and nature of actions to be taken. The report shall be submitted by the owner or operator no later than 15 days after the beginning of each such event. The report shall also include, but not be limited to:
 - The time period during which the excess emissions occurred.
 - Identification of the specific equipment or emission unit which caused the excess emissions.
 - An explanation of the cause, or causes, of the excess emissions and whether the excess emissions occurred as a result of startup, shutdown, scheduled maintenance, upset, breakdown or safety measure.
 - A description of the activities carried out to eliminate the excess emissions.
 - Certify compliance status with the requirements of Sections 131, 132, 133.01, 134.01 through 134.03, 135, and 136.
 - Notification and certification of Enforcement Action Criteria if requesting consideration under Subsection 131.02.
- g. Maintaining excess emissions records at the facility for the most recent 5 calendar year period.

[IDAPA 58.01.01.130-136, 4/5/00]

Certification

9. All documents submitted to DEQ, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certification shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.

[IDAPA 58.01.01.123, 5/1/94]

AIR QUALITY TIER II OPERATING PERMIT NUMBER: T2-050508		
Permittee:	Cyprus Thompson Creek Mining Company	Facility ID No. 037-00001
Location:	Clayton, Idaho	

False Statements

10. No person shall knowingly make any false statement, representation, or certification in any form, notice, or report required under this permit, or any applicable rule or order in force pursuant thereto.
[IDAPA 58.01.01.125, 3/23/98]

Tampering

11. No person shall knowingly render inaccurate any monitoring device or method required under this permit or any applicable rule or order in force pursuant thereto.
[IDAPA 58.01.01.126, 3/23/98]

Transferability

12. This permit is transferable in accordance with procedures listed in IDAPA 58.01.01.209.06.
[IDAPA 58.01.01.209.06, 4/11/06]

Severability

13. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
[IDAPA 58.01.01.322.15.h, 5/1/94; 40 CFR 70.6(a)(5)]